

[0042] FIG. 8D is a graphical representation of the directivity versus frequency for the exemplary sleeve-cage monopole antenna of FIG. 8A;

[0043] FIG. 8E is a top view of the exemplary sleeve-cage monopole antenna of FIG. 8A;

5 [0044] FIG. 9A is a perspective view of an exemplary quadrifilar helical antenna embodiment in accordance with the presently disclosed technology, having dimensions $a = 0.814\text{mm}$, $d = 2\text{cm}$, $w = 3.256\text{mm}$, $h_1 = 0.91\text{cm}$, $h_2 = 8.85\text{cm}$, $Z_0 = 50\Omega$;

[0045] FIG. 9B is a graphical representation of measured and computed VSWR versus frequency for the exemplary quadrifilar helical antenna of FIG. 9A;

10 [0046] FIG. 9C is a graphical representation of the measured and computed input impedance versus frequency for the exemplary quadrifilar helical antenna of FIG. 9A;

[0047] FIG. 9D is a graphical representation of the computed directivity ($\phi = 0$) versus frequency for the exemplary quadrifilar helical antenna of FIG. 9A;

[0048] FIG. 10A is a perspective view of an exemplary sleeve helical antenna
15 embodiment in accordance with the presently disclosed technology, having dimensions $a = 0.814\text{mm}$, $d = 2\text{cm}$, $w = 3.256\text{mm}$, $h_1 = 0.91\text{cm}$, $h_2 = 8.85\text{cm}$, $Z_0 = 50\Omega$;

[0049] FIG. 10B is a graphical representation of measured and computed VSWR versus frequency for the exemplary sleeve helical antenna of FIG. 10A;

[0050] FIG. 10C is a graphical representation of the measured and computed
20 input impedance versus frequency for the exemplary sleeve helical antenna of FIG. 10A;

[0051] FIG. 10D is a graphical representation of the computed directivity ($\phi = 0$) versus frequency for the exemplary sleeve helical antenna of FIG. 10A;

[0052] FIG. 11A illustrates a curved wire helix for use in exemplary antenna technology of the present subject matter;

25 [0053] FIG. 11B illustrates a curved wire loop for use in exemplary antenna technology of the present subject matter;

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[0054] FIG. 11^C illustrates a curved wire meander line for use in exemplary antenna technology of the present subject matter;

[0055] FIG. 12 illustrates an arbitrary curved wire of radius a with source point,
30 observation point, and unit vectors;